D-Link®

SOHO Router Series

DSL-500

This remote router features 1 ADSL WAN port, 1 Ethernet LAN port, IP routing, transparent bridge, NAT/DHCP Internet gateway functions.

ADSL Router for SOHO Networks

With the DSL-500 ADSL router, gaining the speed for your network has never been simpler and more cost-efficient. Offering superior connectivity than traditional analog connection, this router is designed to provide megabit access for interactive video, high speed data communication and Internet access for small office users.

Up to 8Mbps Speed

The ADSL interface features a DMT full rate for downstream of up to 8Mbps and upstream of up to 640Kbps. G.lite rate for downstream is up to 1.5Mbps and upstream is up to 512Kbps, high enough for most Internet applications today. G.lite support eliminates the need to install a splitter for the phone rate. The ADSL port auto-senses the installed rate and auto-negotiates between the full rate and G.lite.

IP Routing and VPN

The router supports IP packet routing over the WAN, in addition to transparent bridging.

NAT and DHCP Support

The router provides cost-saving Internet functions like NAT and DHCP. Network Address Translator (NAT) allows multiple LAN users to share a single ISP account. DHCP automatically assigns IP address for LAN users.

Maximum Utilization of Resources

ADSL enables simultaneous use of voice and data transmission. Regular telephone services use a minimal portion of the actual capacity of the telephone lines, while ADSL uses the remaining bandwidth for high-speed data transfer. This utilization is accomplished by setting different frequency channels for different functions, so that voice communication happens at the lower end of the frequency spectrum, while data transmission takes place at a higher frequency.

Uses Existing Telephone Line

The ADSL interface operates on the existing installed twisted-pair copper telephone wire and does not require new transmission media such as fiber optic cable. ADSL enables high-speed multimedia services, Internet access and video conferencing for everyone using a standard, copper phone line.

No More Busy Signals

ADSL is always on once it is installed. There is no need to dial up to establish a connection to an ISP or to a corporate LAN.

ADSL Router

Key Features

- *1 ADSL port, 1 10 Mbps LAN port*
- *High performance (8Mbps high-speed G.dmt)*
- *Auto-handshake for different ADSL flavors*
- *Bridged Ethernet over ATM, IP over ATM, PPP over ATM*
- *Precise ATM traffic shaping*
- *IP packet routing*
- *Routing protocol supports RIP-1, RIP-2, Static Routing*
- *NAT, DHCP client/server support*
- *PAP/CHAP authentication, administrative passwords*
- *through Telnet*
  Built-in MIBs for SNMP management
- *Upgradable flash EPROM firmware*
- *Web server Embeded*
- *PPP E client Embeded*

ROUTER

ADSL Router

Technical Specifications

WAN

Standards
- ANSI T1.413 issue 2 (full rate DMT over analog POTS)
- ITU G.992.1 (G.dmt)
- ITU G.992.2 (G.lite)
- ITU G.994.1 (G.hs)

Data Rates
- DMT full rate downstream: up to 8Mbps
- DMT full rate upstream: up to 640Kbps
- G.lite ADSL downstream: up to 1.5Mbps
- G.lite ADSL upstream: up to 512Kbps

ADSL Interface
1 RJ-11 connector for phone line connection

Security
- PAP, CHAP
- Simple firewall
- Administrative passwords through Telnet

Protocols
- Bridged Ethernet over ATM (RFC 1483)
- Classical IP over ATM (RFC 1577)
- PPP over ATM protocol (RFC 2364)

Signaling
- ATM signaling: UNI3.0, 3.1 and 4.0
- Precise ATM traffic shaping

Routing

IP Packet Routing
- TCP/IP with RIP-1 and RIP-2
- Static routing
- ICMP (RFC 791)
- UDP (RFC 792)

LAN

Standard
IEEE 802.3 10BASE-T Ethernet standard

LAN Interface
- 1 10BASE-T Ethernet port

Others

Transparent Bridging

Internet Support
- Dynamic Host Configuration Protocol (DHCP) server, client
- Network Address Translation (NAT)

Virtual Private Networking (VPN)
- Layer 2 Tunneling Protocol (L2TP)
- Point-to-Point Tunneling Protocol (PPTP)

LED Indicators
- Power
- Test
- ADSL: Link, Act
- Ethernet: Link, Act

Management

Standard/MIB
- SNMP standard
- Built-in SNMP-based MIBs

Configuration
Telnet supported

Firmware Upgrade, Configuration Backup/Restore
TFTP supported

Console port
DB-9 RS-232 DCE x 1

Physical & Environmental

Power Input
Through external AC power adapter (provided)

Power Consumption
10 watts (max.)

Operating Temperature
0˚~ 50˚C (32˚~ 122˚F)

Storage Temperature
-25˚~ 55 ˚C (-13˚~ 131˚F)

Humidity
5% ~ 95% non-condensing

Dimensions
223.3 x 131.7 x 35mm (8.79 x 5.19 x 1.38 inches)

Weight
455 grams (1 lb)

Emissions (EMI)
- FCC Class B
- CE Class B
- C-Tick
- BSMI Class B

Safety
- CUL
- TUV

ACN 052 202 838

Ordering Information

ADSL Router

DSL-500 1 ADSL port, 1 10BASE-T port, IP routing, transparent bridging

Please specify one of the following after the model number:

/US	for USA and Canada
/EU	for EC countries and Singapore
/F	for Finland
/DE	for Germany
/UK	for United Kingdom
/B	for Belgium
/H	for Holland
/S	for Sweden
/D	for Denmark
/I	for Italy
/R	for Austria
/AU	for Australia

D-Link®

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